In the Claims:

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1. (currently amended) Method for transmitting a plurality of 1 information symbols between a first transceiver and a second transceiver by modulating a carrier signal,

wherein

a different modulation index (M1, M2, M3, M4) is assigned to each one of the information symbols, [[and]] the information symbols convey data, and the modulation indices convey additional information in addition to the data,

at least one characteristic physical variable of the carrier signal is modulated in accordance with the different modulation indices (M1, M2, M3, M4) assigned respectively to the information symbols that are modulated onto the carrier signal to produce a modulated signal, and

the modulated signal is transmitted from the first transceiver to the second transceiver, and the second transceiver evaluates the modulated signal to obtain the data and the additional information.

2. (previously presented) Method according to claim 1, 1 wherein, alongside the frequency and phase, the amplitude 2 (A) is modulated as the characteristic physical variable of the carrier signal.

3. (original) Method according to claim 1, wherein the nth information symbol is transmitted with a time-shift from the (n+1)th information symbol.

Claim 4 (canceled).

1 5. (currently amended) Method according to claim 1, wherein
2 the nth information symbol is transmitted simultaneously
3 with the (n+x)th information symbol. comprising
4 simultaneously transmitting a selected one (n) of the
5 information symbols and a subsequent one (n+x) of the
6 information symbols that follows the selected one of the
7 information symbols.

Claim 6 (canceled).

7. (currently amended) Method according to claim 1, wherein

Method for transmitting a plurality of information symbols

between a first transceiver and a second transceiver by

modulating a carrier signal,

wherein

a different modulation index (M1, M2, M3, M4) is assigned to each one of the information symbols,

at least one characteristic physical variable of the carrier signal is modulated in accordance with the different modulation indices (M1, M2, M3, M4) assigned respectively to the information symbols that are modulated onto the carrier signal, and

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not only the modulation indices (M1, M2, M3, M4) but also respective period lengths (T0, T1) of modulation periods differ respectively from one another to define additional information symbols.

Claims 8 and 9 (canceled).

1 10. (previously presented) Method according to claim 1, wherein
2 the first transceiver controls the second transceiver by at
3 least one control signal, being a clock signal assigned to
4 an information symbol.

Claims 11 and 12 (canceled).

1 13. (currently amended) Method according to claim 1, wherein

Method for transmitting a plurality of information symbols

between a first transceiver and a second transceiver by

modulating a carrier signal,

wherein

a different modulation index (M1, M2, M3, M4) is assigned to each one of the information symbols,

at least one characteristic physical variable of the carrier signal is modulated in accordance with the different modulation indices (M1, M2, M3, M4) assigned respectively to the information symbols that are modulated onto the carrier signal, and

at least one of the information symbols comprises a control signal for setting a data rate for a data

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transmission of the modulated carrier signal by the first transceiver, and the modulation index of the control signal is smaller than the modulation index of a data signal formed by others of said information symbols.

1 14. (previously presented) Method according to claim 10,
2 wherein the second transceiver has no electronic circuit
3 for clock generation and is a passive transponder that uses
4 the clock signal for local clocking.

Claim 15 (canceled).

- 1 16. (currently amended) A method of producing and transmitting
 2 a modulated information signal from a first device to a
 3 second device, comprising the steps:
 - a) defining plural information symbols;
 - b) assigning plural different modulation indices respectively individually to said information symbols, wherein said modulation indices differ from one another;
 - c) representing information items, which are to be transmitted, with said information symbols; symbols, wherein said modulation indices respectively assigned to said information symbols represent additional information in addition to said information items;
 - d) modulating said information symbols onto a carrier signal, comprising modulating a characteristic physical parameter of said carrier signal in

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- accordance with said different modulation indices
 respectively assigned to said information symbols, to
 produce a modulated information signal; [[and]]
- e) transmitting said modulated information signal from said first device to said second device: device; and
- 22 <u>f) in said second device, evaluating said modulated</u>
 23 <u>information signal to obtain said information items</u>
 24 <u>and said additional information.</u>
- 17. (previously presented) The method according to claim 16,
 wherein said information symbols include first and second
 information symbols that differ from one another, and said
 modulation indices include first and second modulation
 indices that differ from one another and that are
 respectively assigned to said first and second information
 symbols.
- 1 18. (previously presented) The method according to claim 17,
 2 wherein said information symbols further include a third
 3 information symbol that differs from said first and second
 4 information symbols, and said modulation indices further
 5 include a third modulation index that differs from said
 6 first and second modulation indices and that is assigned to
 7 said third information symbol.
- 19. (previously presented) The method according to claim 18,
 wherein said information symbols further include a fourth
 information symbol that differs from said first, second and

- third information symbols, and said modulation indices
 further include a fourth modulation index that differs from
 said first, second and third modulation indices and that is
 assigned to said fourth information symbol.
- 20. (previously presented) The method according to claim 17,
 wherein said first and second information symbols
 respectively have different durations relative to one
 another.
- 21. (previously presented) The method according to claim 17,
 wherein said first and second information symbols
 respectively have different numbers and/or different
 patterns of modulation pulses relative to one another.
- 22. (currently amended) The method according to claim 16,
 wherein said different modulation indices respectively have
 predefined modulation index values that differ from one
 another by predefined differences that can be detected and
 differentiated between by said second device, and further
 comprising detecting and decoding said information symbols
 and said modulation indices respectively assigned thereto
 as received in said modulated information signal in said
 second device.
- 23. (currently amended) The method according to claim 16, wherein said information symbols respectively having said different modulation indices assigned thereto respectively

- represent different types of said information items that
 are to be transmitted, transmitted, and said additional
 information represented by said different modulation
 indices respectively identifies said different types of
 said information items.
- 1 24. (previously presented) The method according to claim 16,
 2 wherein said characteristic physical parameter of said
 3 carrier signal being modulated in said step d) comprises a
 4 frequency or a phase of said carrier signal.
- 1 25. (previously presented) The method according to claim 16,
 2 wherein said characteristic physical parameter of said
 3 carrier signal being modulated in said step d) comprises an
 4 amplitude of said carrier signal.
- 26. (previously presented) The method according to claim 25,
 wherein said different modulation indices give rise to
 respective different maximum amplitudes and a consistent
 amplitude modulation swing of said respective information
 symbols modulated in said modulated information signal.
- 1 27. (previously presented) The method according to claim 16,
 2 wherein said information symbols are modulated in
 3 succession respectively in successive time intervals one
 4 after another in said modulated information signal.

- 1 28. (previously presented) The method according to claim 16,

 2 further comprising defining an additional information

 3 symbol and modulating said additional information symbol

 4 onto said carrier wave simultaneously with at least a

 5 selected one of said information symbols defined in said

 6 step a) by superimposing said additional information symbol

 7 thereon in said modulated information signal.
- 29. (currently amended) The method according to claim 16,

 A method of producing and transmitting a modulated

 information signal from a first device to a second device,

 comprising the steps:
 - a) defining plural information symbols;
- b) assigning plural different modulation indices
 respectively individually to said information symbols,
 wherein said modulation indices differ from one
 another;
- 10 c) representing information items, which are to be
 11 transmitted, with said information symbols;
 - d) modulating said information symbols onto a carrier signal, comprising modulating a characteristic physical parameter of said carrier signal in accordance with said different modulation indices respectively assigned to said information symbols, to produce a modulated information signal; and
- e) transmitting said modulated information signal from
 said first device to said second device;

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wherein said step d) comprises modulating said information symbols successively in respective successive time intervals onto said carrier signal, with one or more of said successive time intervals respectively defining respective successive signal periods bounded between field gaps in said modulated information signal, and

further comprising defining additional further information symbols that are respectively assigned respective ones of said signal periods having respective different time durations and that represent additional further information in said signal periods having said different time durations.

- 30. (previously presented) The method according to claim 16, 1 2 wherein at least one of said information symbols represents 3 a control signal, and further comprising receiving said control signal in said modulated information signal in said second device and controlling said second device 6 responsively to said control signal.
- 31. (previously presented) The method according to claim 30, 1 2 wherein said second device is a passive transponder that does not include a local clocking signal generator circuit, 3 wherein said control signal is a clock signal, and said 5 controlling of said second device comprises controlling a local clocking of said second device in response to said 7 clock signal.

- 1 32. (new) Method according to claim 1, wherein the additional
- information identifies respective data types of the
- respective data conveyed by the information symbols.

[RESPONSE CONTINUES ON NEXT PAGE]